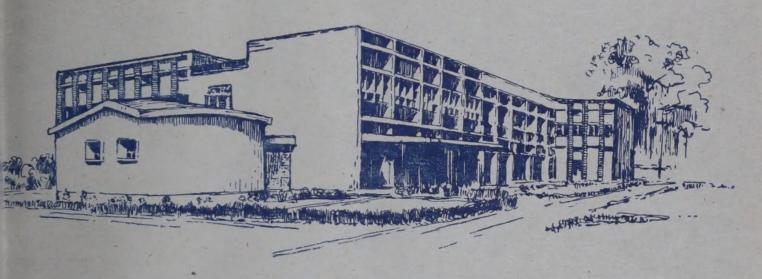
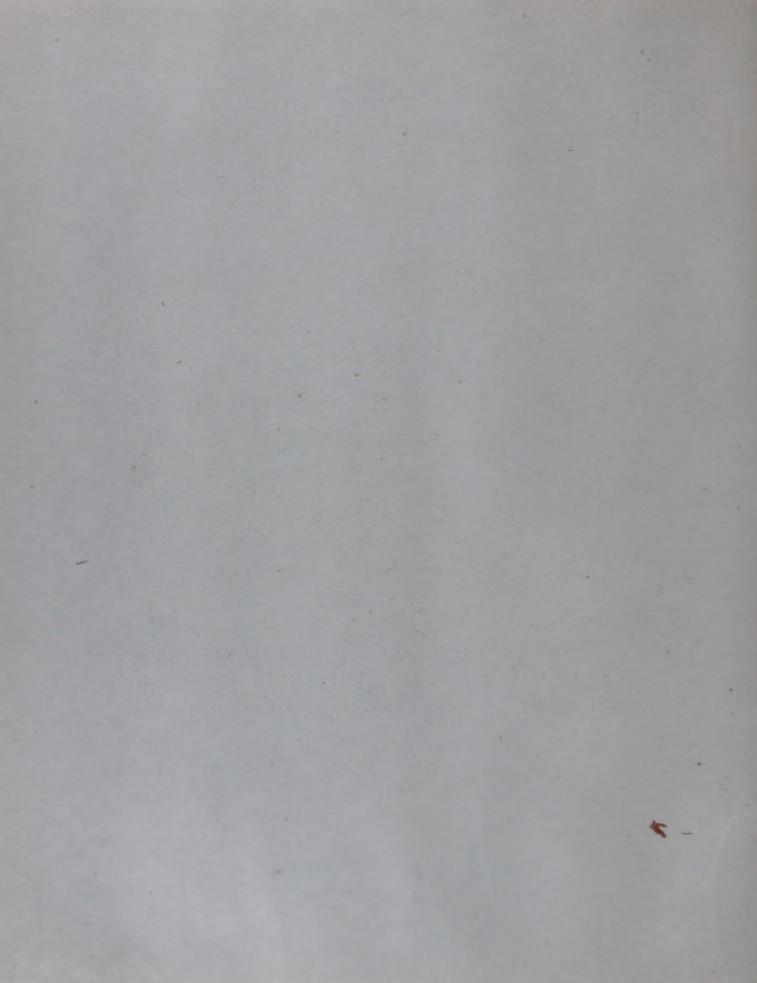
BLIOGRAPHY OF INDIAN FISHERIES



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CENTRAL INLAND FISHERIES RESEARCH INSTITUTE
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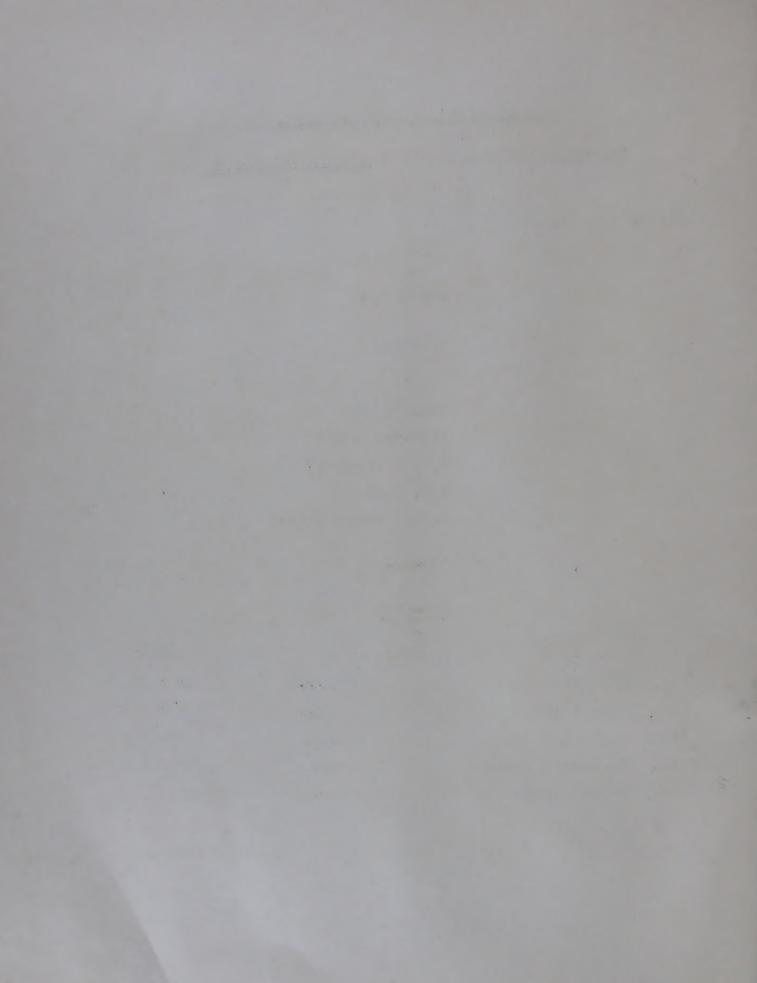
P.K. Chakrabarti

A.K. Dutta

Anjali Ghosh (Miss)

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I. ENTRIES

41. Annigeri, G.G. 1968

(Central Marine Fisheries Research Institute;
Sub-station, Karwar).

Hydrology of the inshore waters of Karwar Bay
during 1964-1966. Indian J. Fish., 15(1 & 2):
155-165.

Gives an account of the seasonal distribution of temperature, salinity, 02, phosphates, nitrates & silicates in inshore waters of Karwar Bay surface waters. 14 ref.

Anon 1972

News and notes. Seafd. Export J., 4(2):31-32.

Contains - Textile fishing products, India leads to shrimp production, India leads in shrimp supplies to Japan etc.

43. 1972

News and Notes. Ibid, 4(3):31-33.

Notes on : College education for fishermen, keeping fish fresh etc.

44. 1972 Statistics. Ibid, 4(2):34-37.

Presents a table showing the pattern of marine products exports from India during 1963-1971 and item-wise exports of marine products in the years 1968-1971.

45. Antony Raja, B.T. 1967
(Central Marine Fisheries Research Institute;
Substation, Karwar).
Length-weight relationship in the oil-sardine,
Sardinella longiceps val. Indian J. Fish.
14(1 & 2): 159-170.

Reports the significant differences in the lengthweight relationships among the fishes during different season, maturity group & sexes based on the analyses of catches of S. longiceps during the years 1959-64. 6 ref.

46. Balakrishnan, V. & K.V. Narayana Rao 1967

(1Central Marine Fisheries Research Institute;
Substation, Kozhikode-5. 2Pelagic Fisheries
Investigation (UNDP), C/o Indo-Norwegian Project,
Cochin-16).

Some post larval and juvenile stages of the Indian mackerel, Rastrelliger kanagurta (cuvier) with notes on the changes in body form. Ibid, 14(1 & 2): 97-114.

Describes some early stages of R. kanagurta, ranged between 8.7-53.7 mm in length. Also gives an account of the changes in the body form from early post-larval to juvenile stage. 20 ref.

47. Banerjea, S.M. 1967
(Soil chemistry unit, Central Inland Fisheries
Research Institute, 47/1, Strand Road, Calcutta-7).
Water quality and soil condition of fish ponds in
some states of India in relation to fish production.

1bid, 14(1 & 2):115-144.

Gives an account of the physico-chemical characters of ponds of different states of India, viz, West Bengal, Assam, Manipur, Orissa, Madhya Pradesh, Andhra Pradesh etc., in relation to fish production. 39 ref.

48. Bennet, P. Sam 1967
(Central Marine Fisheries Research Institute;
Substation, Tuticorin).
Some observations on the fishery and biology of
Sardinella fimbriata (val.) at Vizhingam. Ibid,
14(1 & 2): 145-158.

Gives an account of the distribution, food & feeding habits, maturity and spawning and catch statistics of <u>S</u>. fimbriata. 13 ref.

49. Bensam, P. 1967
(Central Marine Fisheries Research Institute, Mandapam camp).
On a few post-larval stages of Anodontostoma chacunda Hamilton. Ibid, 14(1 & 2):48-53.

Deals with the early life history of A. chacunda. Five post-larval stages of the fish collected from south-west coast of India have been described. 11 ref.

50. Bhanot, K.K. 1971
(Central Inland Fisheries Research Institute,
Barrackpore).
Observations on the availability of brackishwater
fish seed in the Matlah-estuary around Port
Canning. J. mar. biol. Ass. India, 13(1 & 2):
274-278.

The author concludes from his observations that Matlah-estuary is very much rich in fish seed during December - March. Relationship of the hydrological conditions with the seed abundance has been discussed. 2 ref.

51. Bhatt, V.S. 1968
(National Institute of Oceanography (CSIR) Miramar, Panaji (Goa)).

Studies on the biology of some freshwater fishes part VII. Heteropneustes fossilis (Bloch). Indian
J. Fish. 15(1 & 2):99-115.

Length frequency distribution, food and feeding habit and maturity of <u>H. fossilis</u> have been discussed.

1971
(National Institute of Oceanography, Panaji (Goa)).
Studies on the biology of some freshwater fishes
part V. Mystus vittatus (Bloch). J. Bombay nat.
Hist. Soc., 68(3):556-572.

Gives an account of length frequency distribution, maturation cycle, spawning periodicity, condition factors and food and feeding habit of $\underline{\mathsf{M}}$. vittatus.

53. Chandra Mohan, P & T.S. Satyanarayana Rao 1972

(1Department of Zoology, Andhra University, Waltair.

²Indian Ocean Biological Centre, National Institute of Oceanography, Ernakulam, Cochin-18).

Tidal Cycle Studies in relation to zooplankton distribution in the Godavari estuary. Proc. Indian Acad. Sci., 75(1):23-31.

Describes the relationship between the nature of tide and distribution and abundance of different groups of zooplankton in the mid estuarine region of river Godavari during February, 1961. 6 ref.

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Zooplankton distribution along salinity gradient in the Cochin backwater before and after the monsoon. J. mar. biol. Ass. India, 13(1 & 2): 203-210.

Results of the quantitative studies of zooplankton along with hydrographic data from the backwaters of cochin during pre- and post-monsoon months have been presented. 7 ref.

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Electrophoratic determination of amylase in the post-embryonic stage of Labeo robita (Ham.).

Indian J. Fish. 14(1 & 2): 306-312.

Gives an account of the amylase present in the post-embryonic stage of Labeo rohita and also the influence of exogenous yeast Saccharomyces cerevisiae on the amylase synthesis in the post-embryonic carp. 18 ref.

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(1Tank Fisheries Unit, C.I.F.R.I., Bangalore.

2 Central Inland Fisheries Research Unit, Bhavanisagar,
Tamil Nadu. 3&4Fisheries college, University of
Agricultural Sciences, Mangalore-1).

Fish Seed resources of some rivers in South India.

1bid, 14(1 & 2): 53-84.

Describes the results of investigations on spawn prospectation in Krishna and Kauvery river systems in Mysore and Madras state during the monsoon of 1963-65. 18 ref.

- 57. Devaraj, M¹ and V. Ranganathan² 1967
 (¹ Central Marine Fisheries Research Institute,
 Regional Centre, Mandapam camp. ² Freshwater
 Biological Research Station, Bhavanisagar).
 Incidence of Isoparorchis hypselobagri (Billet,
 1898) (Trematoda, Hemiuridae) among the cat-fishes
 of Bhavanisagar reservoir. Ibid, 14(1 & 2):232-250.
 - Describes the presence of the trematode parasite in W. attu, Callichrous bimaculatus and M. aor. Also gives an account of the host-parasite relationship (of the helminth and its hosts). 12 ref.

58. Dhulkhed, M.H. 1968
(Central Marine Fisheries Research Substation,
Mangalore).
Sex ratio and maturity stages of the oil sardine,
Sardinella longiceps val., from the Mangalore zone.
Ibid, 15(1 & 2):116-126.

Sex ratio, maturity and spawning of <u>S. longiceps</u> as revealed from the studies during the years 1960-61 have been presented. 8 ref.

59. Dutt, S. 1971
(Department of Zoology, A.U. Postgraduate Centre,
Guntur-5 (A.P.)).
On 'Kowala thoracata cuvier and valenciennes' of
Cantor (1850). J. mar. biol. Ass. India, 13(1 & 2):
145-147.

Deals with the taxonomy of the fish K. thoracata. Contor's K. thoracata is probably a synonym of S. fambriata according to the author . 6 ref.

60. George, A.I., C.V. Kurian, C.T. Samuel³ & K.H. Mohamed⁴ 1972

(1Director of Fisheries, Kerala, Trivandrum, ²Head
of the Department, University Dept. of Marine
Biology & Oceanography, Cochin-16. ³Oceanographic
Laboratory, Cochin-16. ⁴Fishery Scientist, Cochin-1).
Failure of shrimp fishery along the west coast.
Seafd. Export J., 4(2):7-11.

Possible causes for this failure of shrimp fishery of the west coast are discussed.

61. George, K.C., M.G. Dayanandan & P. Karunakaran Nair 1968
(Central Marine Fisheries Research Institute,
Cochin-11).
Food of some demersal fishes from the trawl grounds
off Cochin, Indian J. Fish., 15(1&2):81-87.

The food habits of seven common species of fish from Cochin region have been described. 7 ref.

62. Gopalakrishnan, V. 1971

(Central Inland Fisheries Research Institute, Barrackpore).

The biology of the Hooghly-Matlah estuarine system (West Bengal, India) with special reference to its fisheries. J. mar. biol.

Ass. India, 13(1 & 2):182-194.

The physico-chemical and biological conditions of the Hooghly-Matlah estuarine system with special reference to its fisheries & biological potential have been discussed in this paper. 13 ref.

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Bright prospects for Indian seafood industry.

Seafd. Export J., 4(3):p29.

The author expresses his view on the prospects of Indian seafood industry.

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(College of Fisheries University of Agricultural Sciences, Mangalore, Mysore State).

On the occurance of a blue green alga on fishes of the family Leiognathidae. J. mar.

biol. Ass. India, 13(1 & 2):133-135.

Reports the occurance of the blue-green alga chrococcaceae on the fishes of the family Leiognathidae. 6 ref.

65. John, Thomas, A 1971
(Madras Christian College, Tambaram, Madras-59)
Crab fishery of the Pulicat lake. <u>Ibid</u>,
13(1 & 2):278-280.

Fishery of Scylla servata with reference to the methods of fishing, Socio-economic factors, marketing etc. have been discussed. 8 ref.

66. Kagwade, P.V. 1967
(Central Marine Fisheries Research Institute;
Sub-station, Bombay-1).
Hermaphroditism in a teleort, Polynemus
heptadactylus Cuv. and Val. Indian J. Fish.,
14(1 & 2):187-197.

Reports the presence of hermaphrodites in P. heptadactylus, in which the sexes are separate normally. The author is of opinion that there is no sex reversal in this case as hermaphrodites appear from smallest size. The author also reports the possibility of self fertilization in this species. 28 ref.

67. Kagwade, V.N. 1967
(Central Marine Fisheries Research Institute,
Mandapam camp)
Food and feeding habits of the horse-mackerel,
Caranax kalla (Cuv. & Val). Ibid, 14(1 & 2):
85-96.

Describes the food and feeding habit of C. kalla at different stages of the life history.

(Central Marine Fisheries Research Institute, Mandapam camp).

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Caranax kalla (Cuv. and Val.). Ibid, 15(1 & 2):

207-220.

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(Central Marine Fisheries Research Institute, Mandapam camp).

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70. Kamal, M. Yusuf 1967
(Central Inland Fisheries Research Substation, Mithapur, Patna).
Studies on the food and alimentary canal of the Indian major carps. II. Labeo robita (Ham.) and III. Cirrhina mrigala (Ham.). Ibid, 14(1 & 2): 24-47.

Describes the food and feeding habit of L. rohita and C. mrigala at different stages of their life. Also gives an account of the differentiation of the alimentary canal and associated parts of these two species. 19 ref.

71. Kasinathan, S. and Basu, S.L. 1972

(Dept. of Biology, Jawaharlal Institute of post graduate, Medical education and Research, Pondicherry-6, India).

Seasonal variation and exogenous hormonal effect on the interrenal glands of Rana hexadactyla Lesson. Proc. Indian Acad. Sci.(8), 75(4):191-200.

Describes the seasonal variations and effects of steroid administration on the interrenal glands in R. hexadactyla. A possible role of exogenous steroid and pituitary hormones on the interrenal has also been discussed. 25 ref.

72. Kowtal, G.V. 1967
(Chilka Investigation Unit, Central Inland
Fisheries Research Institute, Balugaon, Puri).

Occurance and distribution of pelagic fish eggs
and larvae in the Chilka lake during the years
1964 and 1965. Indian J. Fish., 14(1 & 2):
198-214. 26 ref.

- 73. Krishnamurthy, K. & A Purushothaman 1971
 (Centre of Advanced study in Marine Biology,
 Porto Novo, Tamil Nadu).
 Diurnal variations in the phytoplankton
 pigments in the vellar estuary. J. mar. biol.
 Ass. India, 13(1 & 2):271-274. 12 ref.
- 74. Krishnamurthy, K.N. 1971

 (Central Inland Fisheries Research Institute, Badkhal lake, Faridabad, Haryana).

 Preliminary studies on the bottom biota of Pulicat lake. Ibid, 13(1 & 2):264-269.

Deals with the composition and distribution of bottom biota in the pulicat lake. 4 ref.

75. Lakshmanan, M.A.V., B.R. Bhuyan, S. Radhakrishnan and N. Babu 1967

(Central Inland Fisheries Research Substation, 19, Cantonment Road, Cuttack. Central Inland Fisheries Regional Research Laboratory, Jorhat, Assam).

Survival and growth of cultivated fishes in Assam ponds. Indian J. Fish. 14(1 & 2):1-23.

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1968

(Central Inland Fisheries Research Substation, 19, Cantonment Road, Cuttack). Preliminary study on the rearing of carp fingerlings. Ibid, 15(1 & 2):40-52.

Describes the results of field experiments on the mixed fry rearing of <u>C. catla</u>, <u>L. rolita</u>, <u>C. mriqala</u> and <u>C. carrir</u> in six 0.08 hectare ponds for 3 months during 1965 and 1966. 18 ref.

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(Central Marine Fisheries Research Institute,
Substation, Vizhingam, via Trivandrum).

Ulua mandibularis (Macleay) (Carangidae,
Pisces), a new record from the Indian Seas.

Ibid, 15(1 & 2):180-187.

Distinguishing characters, detailed description, changes in the body form and dentition with growth have been dealtwith in the paper. 14 ref.

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(P.G. Dept. of Zoology, Jammu & Kashmir University, Srinagar).

On the relationship between feeding and Ovarian cycle in Schizuthorax niger Heckel and Botia birdi Chaudhry. Ibid, 14(1 & 2):313-317

Gives an account of the relationship between stages of ovarian maturity and the rate of feeding in the fishes, viz., S. niger and B. birdi in Kashmir valley. 9 ref.

79. Mogelberg, Bent. 1972

Indian shrimp ranks best in the world.

Seafd. Export J., 4(3):15-16.

The author has given his views on the production, quality marketing and export of smaller Indian shrips.

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(Central Marine Fisheries Research Institute,
Cochin-11).
Results of the tagging experiments on the Indian
spiny lobster, Panulirus homerus (Linnaeus)movement and growth. Indian J. Γish., 15(1 & 2):
15-26.

Described the results of tagging experiments on the Indian spiny lobster P. homerus. The higher percentage of recovery of the tagged lobsters in two successive seasons led the authors to conclude that long migratory movements of the fishery do not take place and it is highly restricted and localised in nature. 12 ref.

81. Mohamed, K.H. and P. Vedavyasa Rao 1971
(Central Marine Fisheries Research Institute,
Cochin).
Estuarine phase in the life-history of the
Commercial prawns of the west coast of India.
J. mar. biol. Ass. India, 13(1 & 2):149-161.

Estuarine phase of commercially important species of prawns have been described. Prospects of utilization of the estuarine areas for culturing different species of prawns and associated problems are discussed. 39 ref.

82. Moore, N.W. 1971

(The nature conservancy, Monks wood Experimental Station, Abbots Ripton, Huntingdon, U.K.).

Marine pollution by pesticides and polychlorinated biphenyls. Ibid, 13(1 & 2):61-65.

Recent studies on the ecological significance of the pollution by polychlorinated biphenyls in marine as well as freshwater have been discussed. 11 ref.

83. Moorjani, M.N. & M. Vasantha 1972
(Central Food Technological Research Institute,
Mysore - 2A),
Hot smoking of oil-sardines and mackerels.
Seafd. Export J., 4(3):25-27.

Describes a combined process of salting, boiling and smoking of cil-sardines and mackerels and the quality aspects of the product. 3 ref.

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(Central Marine Fisheries Research Institute, Cochin-11).
Plankton of Calicut inshore waters and its relationship with Coastal pelagic fisheries.
Indian J. Fish., 14(1 & 2):271-292.

Describes the fluctuations in the total volume of plankton and the abundance of zooplankton in the inshore area off Calicut in relation to hydrological conditions. A relation of this to the pelagic fisheries of this area has also been discussed. 26 ref.

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(Central Institute of Fisheries Operatives, Cochin-16).
Polyethylene twines for fishing nets. Seafd.
Export J., 4(3):17-19.

Describes the usefulness of polyethylene twines for making fishing gears.

86. Muthu, M.S. 1968

(Central Marine Fisheries Research Institute,
Substation, Madras-8).

On some new records of penaeid prawns from the
east coast of India. Indian J. Fish., 15(1 & 2):
145-154.

Describes some species of penaeid prawns, recorded for the first time from the east coast of India.

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(1 Central Marine Fisheries Research Station,
Madras. 2 Indian Ocean Giological Centre,
Post Box 1913, Cochin-18).

Solenocera indica Nataraj, One of the commercially important penaeid prawns of Indian waters
as a synonym of Solenocera crassicornis (H.
Milne Edwards). J. mar. biol. Ass. India,
13(1 & 2):142-144. 11 ref.

88. Nath, Dharmendra 1972

(Department of Parasitology, U.P. College of Veterinary Science and Animal Husbandry, Mathura, Uttar Pradesh).
Occurrence of metacercarial cysts of Haplorchoides

Occurrence of metacercarial cysts of Haplorchoides attenuatum(Srivastava, 1935) in a freshwater fish. Seafd. Export J., 4(2):29-30.

The author describes the presence of metacercarial cysts below the body scale of <u>Puntius sophore</u> collected from Gorakhpur (U.P.).

89. Parameswaran Pillai, P. 1971

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On the post-naupliar development of the calanoid copepod Labidocera pectinata Thomoson and Scott (1903). J. mar. biol. Ass. India, 13(1 & 2): 66-77.

Describes the developmental stages of the copepod. 8 ref.

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(Central Marine Fisheries Research Institute, Cochin).

Studies on the estuarine copepods of India. Ibid, 13(1 & 2):162-172.

Distribution and seasonal abundance of the backwater copepods, especially the calanoids, of Cochin waters have been dealtwith. 30 ref.

91. Patnaik, S. 1971

(Central Inland Fisheries Research Substation, Cuttack, India).

Seasonal abundance and distribution of bottom fauna of the Chilka lake. Ibid, 13(1 & 2): 106-125.

Describes the seasonal variations in the abundance of bottom fauna of the Chilka lake during the period, April 1973 to March 1964, with reference to hydrological conditions, nature of the bottom, transparency and vegetation of the lake. 18 ref.

92. 1972
(Central Inland Fisheries Research Substation, Cuttack, India).

Observations on the control of <u>Pistia stratiotes</u> Linn. in fish ponds by "Gramoxone". <u>Proc. Indian</u> Acad. <u>Sci.(8)</u>, <u>75(1)</u>:15-22.

Gives an account of the "Gramoxone" treatment for controlling the weed <u>P. stratistes</u>. The cost of clearance of the weeds by "gramoxone" treatment and management procedure after the treatment have also been discussed. 19 ref.

93. Perumal, M.C., V. Narayana Pillai & V.S. Ramachandran 1972
(Central Institute of Fisheries Operatives,
Cochin-16).
Some trends observed in the prawn chatches of
the vessel 'Blue Fin' during the period
January to December 1971. Seafd. Export J.,
4(3):9-14.

Gives an account of the trends of prawn fishery as observed in the catches of the vessel 'Blue Fin' during its operation from January to December 1971, using various types of trawl nets, catch composition of different varieties of prawns is also given.

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(Central Marine Fisheries Research Institute,
Cochin-11).
Seasonal cycle of pelagic copepods from the
fishing grounds off Bombay. Indian J. Fish.,
15(1 & 2):198-206.

Seasonal cycle, relative abundance and influence of surface temperature and salinity on the seasonal abundance of the copepods of Bombay water have been described. 9 raf.

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(Central Institute of Fisheries Operatives,
Cochin-16).

Exploitation of marine fisheries resources in
Indian wavers. Seafd. Export J., 4(3):21-23.

Discusses the present status of marine fisheries exploitation in India. The author has suggested some points for bringing out improvement in the exploitation of the marine fishery.

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(Central Inland Fisheries Research Institute,
Bhadra Reservoir Project, Shimoga Dist.,
Mysore State).

Observations on the larval ingress of the milkfish,
Chanos chanos(Forskal) into the Pulicat lake.
J. mar. biol, Ass. India, 13(1 & 2):249-257.

Seasonal abundance of the larvae of <u>C. chanos</u> in the Pulicat lake has been described with reference to lunar phase, the tide etc during the years 1966-1968. 12 ref.

97. Prabhu, M.S¹, S. Ramamurty², M.D.K. Kuthalingam and M.H. Dhulkhed⁴ 1967

(1 National Institute of Oceanography, Panaji, Goa. 2 & 4Central Marine Fisheries Research Substation, Mangalore. 3Central Marine Fisheries Research Substation, Vizhingam, via Trivandrum). On the experimental fishing off Ullal(Mangalore). Indian J. Fish., 14(1 & 2):225-231.

Presents the results of experimental fishing undertaken at 12 - 25 m off Ullal by trawl and gill nets. Discusses the catch statistics in relation to temperature & salinity variations. Some observations on biological aspects of important species are also given. 5 ref.

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(Department of Zoology, Holkar Science
College, Indore).

Note on some interesting features observed
in the testes of Ompok bimaculatus (Bloch).
Sci. & Cult., 38(1):30-31.

Describes some peculiar features of the testes of O. bimaculatus. 6 ref.

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 Systematic position and description of
 teleostean fishes of Madhya Pradesh.
 (Section of Ichthyology and Fisheries, Dept.
 of Zoology, Saifia College, Bhopal. pp 83.
- 100. Raja K.C.M. 1970
 (Central Food Technological Research Institute,
 Mysore).
 Pond fishes parasites. Sci. Reptr., 8(6):
 265-266.

Describes some common parasites of pond waters and some simple treatments for destroying these parasites. 3 ref.

101. Rajyalakshmi, T., T.S. Ramaraju and D. Ramakrishna Rao 1968
(Central Inland Fisheries Research Institute,
Krishna Godavari Unit, Rajahmundry).
On the marking of freshwater prawn, Macrobrachium malcolmsonii in river Godavari. Indian
J. Fish , 15(1 & 2):61-67.

Describes the results of marking experiments with the use of a biological stain, frypan blue, in M. malcolmsonii of Godavari river. 14 ref.

102. Ramamirtham, C.P. 1968

(Central Marine Fisheries Research Institute, Cochin-11).

Vertical salinity of temperature, salinity and dissolved oxygen in the Maldive region of the Indian Ocean. Ibid, 15(1 & 2):27-39.

Describes the hydrographical features of the region from 1°S to 8°N between the meridians of 71°E and 80°E during September - October 1962. 7 ref.

103. Raman, K. 1968

(Central Inland Fisheries Research Substation, Cuttack, Orissa).

On an experiment in prawn-cum-Tilapia culture in paddy field. Ibid, 15(1 & 2):175-179.

The results obtained in an experiment on prawn-cum-Tilapia culture in a farm in Kerala have been reported in this paper. The author is of opinion that Tilapia may serve as a secondary crop from prawn fishing fields. 10 ref.

104. Ramaraju, T.S. 1971

(Central Inland Fisheries Research Institute, Krishna Godavari Unit, Rajahmundry).

On the 'Benduvala', a special gear for catching the major carp Labeo fambriatus (Bloch) in river Godavari, with observations on Benduvala fishery at Dumagudem. Proc. Indian Acad. Sci. (B), 74(6):277-283.

The author describes his observations on a special type of gear, locally called "Benduvala", which is a drag-cum-gill net. A short description of the net and its operational techniques have also been described in this paper. The adverse effects of fishing with such nets have also been discussed. 9 ref.

- 105. Rama Sarma, D.V. & P.N. Ganapati 1971
 (Dept. of Zoology, Andhra University, Waltair).
 Hydrography of the Coringa river of the
 Gautami-Godavari estuarine system. J. mar.
 biol. Ass. India, 13(1& 2):234-248. 19 ref.
- 106. Rao, A.V. Prabhakara 1967
 (Central Inland Fisheries Research Institute,
 19-A, Patel Road, Madras-11).
 Some observations on the biology of Penaeus
 indicus H. Milne-Edwards and Penaeus monodon
 Fabricius from the Chilka lake. Indian J. Fish.,
 14(1 & 2):251-270.

Gives an account of the length-weight relationship, food and feeding habit, sex-ratio, moulting, breeding and migration of P. indicus α P. monodon in the Chilka lake during Mary - December, 1963. 27 ref.

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